

1st International q-bio Conference on Information Processing in Cellular Signaling and Gene Regulation

Aug 8-11, 2007

Santa Fe, NM, USA

<http://cnls.lanl.gov/Conference/q-bio/2007>

Sponsored by Los Alamos National Laboratory

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Call for Papers:

This conference is planned as the first in a series of annual meetings to advance predictive modeling of signal-transduction and genetic-regulatory networks. The meetings will emphasize the importance of considering the deterministic and stochastic behavior of biochemical networks in the context of signals that approach the complexity of natural signals encountered by cells *in vivo*. The conference is concerned with detailed modeling of biochemical systems to understand, predict, and test general principles underlying the organization of cellular signaling. The conference will yield insight into the suitability of elucidating these principles using coarse-grained, phenomenological models based on information and signal processing theories, in conjunction with biophysical and biochemical experiments, analyses, and simulations.

The single-track program will include about 30 invited presentations. Leading experimental and theoretical researchers in quantitative systems biology will review the present status of their fields and indicate challenges to rigorous scientific understanding, describing their own results along the way. Shorter talks, poster presentations, and software demonstrations, selected from contributed submissions and describing novel and significant advances, will round out the program. Authors of invited talks and selected contributed talks and posters will be invited to contribute papers to a special issue of *IEE Proceedings Systems Biology*, a journal indexed by ISI and PubMed.

The meeting will take place in a picturesque setting in historic Santa Fe, New Mexico, the precise location will be announced after final approval. Santa Fe is the oldest capitol city in the U.S., has a vibrant culinary and cultural scene, and lies in the foothills of the Sangre de Cristo mountains, where there are excellent hiking trails. Housing will be reserved for the participants for the duration of the workshop.

The deadline for submission of extended abstracts for contributed presentations and posters is **April 15, 2007**, and the acceptance decisions will be made by May 15, 2007. Accommodation must be reserved by June 1, 2007. The registration fee, which includes meals, will be in the neighborhood of USD 500. Submissions from junior researchers are especially welcome, and travel awards for graduate students and postdocs may be available. More information about the conference, including instructions for registering, submitting papers, reserving accommodations, and applying for travel awards, is available at the conference web site (URL above).

We sincerely welcome your participation in this meeting that stresses the importance of quantitative modeling for understanding biological systems.